

DEMSKIY, A., inzh.; TAMAROV, Ye., inzh.; KALASHNIKOV, N., inzh.; SHISKIN,
N., inzh.; LEYKIN, A., inzh.; IL'UZEMINI, I., inzh.

New machines for mills and elevators. Muk.-elev. prom. 28 no.9:
22-26 S '62. (MIRA 15:10)

1. Gor'kovskiy mashinostroitel'nyy zavod im. Vorob'yeva (for Demskiy,
Tamarov, Kalashnikov, Shishkin). 2. Vsesoyuznyy, nauchno-issledovatel'
skiy i eksperimental'no-konstruktorskiy institut prodrovol'stvennogo
mashinostroyeniya (for Leykin). 3. Khar'kovskaya mashinoispytatel'naya
stantsiya.

(Grain-handling machine)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHTSKOV, P.

"Preparation of Cold-Rolled Steel For Reinforced Concrete. n. 29", (ARKHITEKTURA I.
STROITELSTVO) Vol. 1, No. 1, 1953, Sofiya, Bulgaria.

SO: Monthly List of East European Accessions L.C. Vol. 2, No. 11, Nov. 1953, Uncl.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

SHISMAREV, I.A.

Uniform evaluations of the derivatives of solutions to the
Dirichlet problem and to the problem of eigenfunctions for the
operator $Lu = \operatorname{div}(p(x)\operatorname{grad} u) + q(x) \cdot u$ with discontinuous
coefficients. Dokl. AN SSSR 137 no.1:45-47 Mr-Ap '61.
(MIRA 14:2)

1. Moskovskiy gosudarstvennyy universiter im. M.V.Lomonosova.
Predstavлено академиком I.G.Petrovskim.
(Differential equations) (Eigenfunctions)

ACC NR: AP6010053

SOURCE CODE: UR/0032/66/032/003/0267/0269

AUTHOR: Nazarenko, V. A.; Biryuk, Ye. A.; Shustova, M. B.; Shitareva, G. G.;
Vinkovetskaya, S. Ya.; Flyantikova, G. V.ORG: Institute of General and Inorganic Chemistry, AN UkrSSR (Institut obshchey i ne-
organicheskoy khimii AN UkrSSR)

TITLE: Determination of impurities in tantalum

SOURCE: Zavodskaya laboratoriya, v. 32, no. 3, 1966, 267-269

TOPIC TAGS: tantalum, impurity level, photometric analysis, iron, copper, tin, lead

ABSTRACT: The photometric determination of impurities in tantalum is described. It has a sensitivity of $10^{-4}\%$ and requires all the precautionary measures used during the analysis of high-purity metals, including the running of blank experiments under conditions of sample analysis. The photometric determination is preceded by extraction of the analyzed element (Pb, Cu, Fe, Ni, or Sn) from the tantalum sample, by extraction during the determination of tantalum in Zr, Bi, and Zn in the form of a fluortantalate complex, and by determination of chromium after separation of the tantalum by hydrolysis. Lead and cadmium are determined by dithizone after extraction of the lead and cadmium (in the form of diethyldithiocarbamates) from acid medium with chloroform. The interfering effect of other elements is eliminated by washing the extract with alkaline

Card 1/2

UDC: 543.7

SHISTER, A. B., Engr

PA 167T6

USSR/Electricity - Dielectrics, HF
HF Studies

May 50

"Electrical Properties of Certain Materials in High-Frequency Fields," A. B. Shister, Engr, Cen Sci Res Lab on Electrification of Ind and Constr Work, Min Lab on Constr of Heavy Ind Enterprises

"Elektrichestvo" No 5, pp 19-23

Results of experiments in electrical properties of wood, suspended acid and textile materials in hf fields. Gives relation between electric parameters and moisture, temperature, anisotropic structure, etc. Submitted 22 Jun 49.

167T6

ACCESSION NR: AP4034272

S/0207/64/000/002/0060/0065

AUTHORS: Aliyev, Yu. M. (Moscow); Shister, A. P. (Moscow)

TITLE: Flows of particles and heat in plasma along a strong magnetic field

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1964, 60-65

TOPIC TAGS: particle flow, heat flow, strong magnetic field, ionized plasma, Larmor radius, Debye radius, coulomb interaction, kinetic equation

ABSTRACT: The authors assume that in a completely ionized electron-ion plasma the average Larmor radius may be smaller than the Debye radius of the shielding coulomb interaction. The effect of transfer in this case is studied. They find the flow of particles and heat along the field, starting from the kinetic equation and considering the effect of the magnetic field on the collision of particles. "In conclusion the authors thank V. P. Silin under whose guidance this work was done." Orig. art. has: 34 formulas.

ASSOCIATION: none

SUBMITTED: 06May63

DATE ACQ: 15May64

ENCL: 00

SUB CODE: EM, ME
Card 1/1

NO REF Sov: 001

OTHER: 001

STEKOL'NIKOV, I.S. (Moskva), SHISTER, A.R. (Moskva), SHKILEV, A.V., (Moskva)

Calculation of induced overvoltages in electric power transmission
lines. Izv. AN SSSR. Otd. tekhn. nauk. Energ. i avtom. no.6:23-27 N-D
'60. (MIRA 13:12)
(Electric lines--Overhead) (Lightning protection)

ALIYEV, Yu.M.; SHISTER, A.R.

Transfer phenomena in a plasma inside a high magnetic field.
Zhur. eksp. i teor. fiz. 45 no.5:1499-1508 N '63. (MIRA 17:1)

l. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

ALIYEV Yu.M. (Moskva); SHISTER, A.R. (Moskva)

Particle and heat fluxes in a plasma along a high magnetic
field. PMTF no.2:60-65 Mr-Ap '64. (MIRA 17:8)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

L 43721-65 EWT(1)/EPF(n)-2/EWG(m)/EPA(w)-2 Pz-6/Po-4/Pab-10/Pi-4 IJP(c)
ACCESSION NR: AP5008497 WW/AT S/0207/64/000/006/0050/0056 48
B

AUTHOR: Shister, A. R. (Moscow)

TITLE: The high frequency conductivity of a nonisothermal completely ionized plasma

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1964, 50-56

TOPIC TAGS: plasma conductivity, completely ionized plasma, nonisothermal plasma, homogeneous plasma, ionic audio oscillation, alternating electric field, external field temperature, ion temperature, electron temperature

ABSTRACT: An approximate expression is derived for the high frequency conductivity of a plasma under conditions where the temperature of the electrons is substantially higher than that of the ions, and the frequency of the external field is greater than that of the Langmuir ionic oscillations. The case where ionic audio oscillations are generated in the plasma is investigated. The plasma is homogeneous, consisting of electrons and ions positioned in an alternating electric field. "The author thanks V.P. Silin for proposing the subject of this study and for many useful discussions." Orig. art. has: 41 formulas.

Card 1/2

L 43721-65

ACCESSION NR: AP5008497

ASSOCIATION: none

SUBMITTED: 15May64

ENCL: 00

SUB CODE: NP, ME

NO REF SOV: 004

OTHER: 002

me
Card 2/2

L 5411-66 EWT(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2 IJP(c) AT

ACCESSION NR: AP5019233

UR/0056/65/049/001/0193/0209

AUTHOR: Silin, V. P.; Shister, A. R.

TITLE: Contribution to the theory of transverse diffusion and of static and high-frequency conductivity of a plasma situated in a strong magnetic field

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965,
193-209

TOPIC TAGS: plasma conductivity, plasma diffusion, plasma magnetic field, ionized plasma

ABSTRACT: The authors develop the theory of diffusion and conductivity of a fully ionized non-isothermal plasma situated in a magnetic field such that the Larmor radii of the particles become comparable with or even smaller than the Debye screening radius. Unlike other investigations, the present analysis gives rise also to additive terms proportional to the ratio of the difference between the electron and ion temperatures to the ion temperature. Consequently, if the electron temperature (T_e) is one order of magnitude larger than the ion temperature (T_i) the transverse collision frequency, which determines the transverse diffusion and transverse conductivity, turns out to be proportional to $T_e^{1/2}T_i^{-1}$. Another difference is that the frequency range covered is larger, account is taken of the in-

Card 1/2

09010878

L 5414-66

ACCESSION NR: AP5019233

fluence of the Coulomb interaction of the particles on the time during which the colliding plasma particles interact, and weakly nonlinear effects due to outward electric drift of the particles. The results point both to an appreciable increase in the coefficient of transverse diffusion and to a qualitative dependence of the diffusion on the ion temperature. Orig. art. has: 6 formulas.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences, SSSR) *44,55*

SUBMITTED: 09Jan65 ENCL: 00 SUB CODE: ME
NR REF SOV: 013 OTHER: 001

BVK
Card 2/2

L 3968-66 EPA(s)-2/ETC/EPP(n)-2/ENG(m)/EPA(w)-2 IJP(c) G3/AT

ACCESSION NR: AP5016691

UR/0294/65/003/003/0360/0369

533.932.15

AUTHOR: Shister, A. R. (Moscow)

TITLE: The dielectric permitivity of isothermal plasma

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 3, 1965, 360-369

TOPIC TAGS: dielectric susceptibility, Debye length, plasma charged particle

ABSTRACT: The complex dielectric permitivity tensor is derived for isothermal plasma in a magnetic field. Starting out with the kinetic equation for the distribution function, the permitivity tensor is derived for homogeneous plasma in a magnetic field sufficiently strong to influence the collision frequency of plasma particles. The assumptions that: 1) particle interaction energy is smaller than thermal energy, 2) particle interaction with waves longer than Debye shielding radius and 3) the correlation function integrates over the entire period of particle interactions lead to the expression for the tensor which is valid for frequencies both greater and smaller than the Langmuir frequency. The criteria needed

Card 1/2

L 3968-66
ACCESSION NR: AP5016691

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for separating electron and ion magnetization is given. Orig. art. has: 1 figure.
52 equations.

ASSOCIATION: none

SUBMITTED: 09Jul64

ENCL: 00

SUB CODE: ME, EM

NO REF Sov: 008

OTHER: 000

QC

Card 2/2

L 11942-66 EWT(1)/ETG(F)/EPF(n)-2/EWG(m) LIP(c) AT
ACC NR: AP6001915 UR/0294/65/003/006/0920/0921

AUTHOR: Shister, A.R. (Moscow)

ORG: None

TITLE: The conductivity of a non-isothermal plasma

SOURCE: Teplofizika vysokikh temperatur, v.3, no.6, 1965, 920-921

TOPIC TAGS: high temperature plasma, plasma conductivity, strong magnetic field, particle collision, electric field

ABSTRACT: In previous work, expressions have been derived for the conductivity of an isothermal plasma in a strong magnetic field. In another previous work an expression was found for the conductivity in the case when the temperature of the ions is much less than the temperature of the electrons; and, for a wide spectrum of frequencies, an expression was obtained for the effective collision frequency as a function of the temperature of the ions. The present article treats the question of conductivity under conditions when the average displacement of an ion does not exceed the electron Larmor radius beyond the vibration period of the external electric field. The article demonstrates by an extended mathematical treatment that, under determined conditions, there arises, qualitatively and quantitatively, a new expression for the collision frequency as a function of the vibration period of the external field.

Card 1/2

UDC: 533.932

611

B

L 11942-66

ACC NR: AP6001915

Orig. art. has 5 formulas.

SUB CODE: 20/ SUBM DATE: 16Jun65/ ORIG REF: 002/ OTH REF: 000

O

[Signature]
Card 2/2

SHISTER, G. (Leningrad)

Without regard to the residents. Zhil.-kom.khoz. 12 no.11:28-29
N '62. (MIRA 15:11)

1. Neshtatnyy korrespondent zhurnala "Zhilishchno-kommunal'noye khozyaystvo".
(Leningrad--Apartment houses--Maintenance and repair)

SHISTER, Grigoriy Aronovich; KOGAN, Semen Mikhaylovich; BERESHCHUK, N.,
red.; BAKHTIYAROV, A., tekhn. red.

[There is something to learn here] Zdes' est' chemu uchit'sia.
Tashkent, Gos. izd-vo Uzbekskoi SSR, 1959. 128 p. (MIRA 14:10)
(Tashkent—Textile industry)

ZASOV, Ivan Alekseyevich; KARABAN, Georgiy L'vovich; POLTEV, Konstantin
Mikhaylovich; PIKOVSKIY, Ya.M., dots., kand. tekhn. nauk, red.;
SHISTEKH, G.M., red.; SOKOL'SKIY, I.Y., red. izd-va; VOLKOV, S.B.,
tekhn. red.

[Special vehicles for municipal service; atlas of models] Spetsial'-
nye avtomobili gorodskogo khoziaistva; atlas konstruktsii. Pod
obshchey red. IA.M. Pikovskogo. Moskva, Izd-vo M-va kommun. khoz.
RSFSR, 1957. 206 p. (MIRA 11:10)

(Street cleaning machinery) (Motortrucks)

LYSOVA, A.I., kand.tekhn.nauk; DAIDREKOV, S.D., kand.tekhn.nauk;
SHISTER, G.M., red.

[Album of precast floor elements for major repairs of apartment
houses] Al'bom sbornykh konstruktsii perekrytii dlja kapital'-
nogo remonta zhilykh domov. Leningrad, 1959. 29 p.
(MIRA 14:7)

1. Akademiya kommunal'nogo khozyaystva. Leningradskiy nauchno-
issledovatel'skiy institut.
(Precast concrete) (Floors, Concrete)

SHISTER, G.M., red.

[Investigating the effectiveness and expediency of the use of air
in washing contact clarifiers] Issledovanie effektivnosti i tseles-
oobraznosti primeneniia vozdukha pri promyvke kontaktnykh osvetlitelei.
1959. 12 p. (Akademija komunal'nogo khoziaistva, Informatsionnoe
pis'mo, no. 8) (MIRA 14:1)

(Water-Purification)

GORYACHEVA, I.A.; SHISTER, G.M., red.

[Studying the thermal field of ground with a water line laid
in the zone subject to seasonal freezing; scientific report]
Issledovanie teplovogo polia grunta s vodovodom, prolozhennym
v zone sezonnogo promerzaniia; nauchnoe soobshchenie. Pushkin,
Akad.kommun.khoz.im.K.D.Pamfilova, 1959. 39 p.

(MIRA 13:6)

(Water-supply engineering, Low temperature)

STREL'TSOVA, L.I.; SHISTER, G.M., red.

[Investigating storm sewer inlets of combined sewerage systems;
scientific report] Issledovanie livnespuskov obshchesplavnoi
kanalizatsii; nauchnoe soobshchenie. Leningrad, Akad.kommun.
khoz.im. K.D.Pamfilova, 1959. 50 p. (MIRA 13:10)
(Sewerage)

SHISTER, G.M., red.

[Decontamination of drinking water by bactericidal rays; calculation
and design of the installation] Obezzarazhivanie pit'evy^l vody
bakteritsidnymi luchami; raschet i proektirovanie ustrojstv. 1960.
12 p. (Akademiiia kommunal'nogo khoziaistva. Informatsionnoe pis'mo,
no. 4).

(Water-purification)

(Radiation sterilization)

(MIRA 14:1)

ISSERLIN, A.S.; SHISTER, G.M., red.

[Jet burners operating on mixed gas] Rabota inzhektzionnykh
gerelok na smeshannom gaze; nauchnoe soobshchenie. Leningrad,
Akad.kommun.khoz.im. K.D.Pamfilova, 1960. 19 p. (MIRA 13:9)
(Gas burners)

SHISTER, G.M., nauchnyy red.; DESHALYT, M.G., vedushchiy red.;
GENNAD'YEVA, I.M., tekhn.red.

[Automation of water-heating boilers and steam boiler systems]
Avtomatizatsiya otopitel'nykh kotel'nykh; sbornik dokladov.
Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi
lit-ry, Leningr.otd-nie, 1961. 253 p. (MIRA 14:3)

1. Akademiya kommunal'nogo khozyaystva. Leningradskiy nauchno-
issledovatel'skiy institut.
(Boilers) (Automatic control)

LYSOV, A.I., kand. tekhn. nauk; DAIDBEKOV, S.D., kand. tekhn. nauk;
TENTLER, N.I., inzh., ved. konstruktor; SHISTER, G.M.,
red.; GANKINA, R.G., tekhn. red.

[Album of standard plans (ATR-1-61) for renovating roofs under
nonmetallic roofing] Al'bom tipovykh reshenii po rekonstruktsii
krysh pod nemetallicheskie krovli (ATR-1-61). Moskva, 1962.
74 p. (MIRA 16:3)

1. Akademiya kommunal'nogo khozyaystva. Leningradskiy nauchno-
issledovatel'skiy institut.
(Roofs--Maintenance and repair)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

GOLIKOV, I.I., kand. tekhn. nauk; GUDKOV, G.I.; KROKH, G.M.,
red.

(Technical specifications for designing swimming pools)
Tekhnicheskie usloviya proektirovaniia kupal'no-
plavatsel'nykh basseinov. Moscow, 1962. 36 p.

(EUR 17:10)
L. Pecheniye konstruktornogo cherezvaystva. Moscow,

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

LYSOVA, A.I., kand. tekhn. nauk; VIL'ER, B.I., inzh.; GAIKOV, N.N.,
inzh.; IGLOVA, K.I., inzh.; KALISTRATOVA, M.V., inzh.;
RABINOVICH, G.M., inzh.; SHISTER, G.M., red.

[Album of precast reinforced concrete elements of enclosing structures for major repair of residential buildings; working drawings] Album sbornykh zhelezobetonnykh konstruktsii perekrytii dlja kapital'nogo remonta zhilykh domov; rabochie chertezhi. Leningrad, Akad. kommuna.khoz. 1963. 115 p. (MIRA 17:7)

1. Akademija komunal'nogo khozyaystva. Leningradskiy nauchno-issledovatel'skiy institut.

CHISTOVICH, Sergey Andreyevich; CHISTER, G.K., nauchn. red.;
SUKHAREVA, E.S., red.

[Automating equipment and systems of heat supply and
heating] Avtomatizatsiya ustrojstv i sistem teplo-
snabzheniya i opolneniya. Moskva, Fizmatgiz, 1964.
(MKhA 12:1)
179 p.

1. Relying on the results of calculations, the author has drawn up working drawings for the major structural elements of staterecses for the major

object of apartment houses; working drawings] chelozobeton-
noy konstruktsii les'chitsa dlia kapital'nogo remonta zhilykh
zdanii i nauchnykh chertazhi. Leningrad, 1961. 60 p.

(MIRA 18:11)

2. Academician Kondratenko V. N. Leningradskiy nauchno-
issledovatel'skii i zavod.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

~~SHISTER, Ye.~~

Material incentives for workers to obtain above plan results.

Biul.nauch.inform.trud i zar.plate No.1:40-45 '59.
(MIRA 12:4)

(Bonus system)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

SHISTER, Ye.

Monetary incentive for workers in self-supporting shops and
sections for planned and additional reductions of costs.
Biul.nauch.inform.; trud i zar.plata no.8:39-44 '59.

(MIRA 13:1)

(Costs, Industrial) (Bonus system)

SHISTER, Yevg.

Beyond the Antarctic Circle. Vympel 10 no.18:18-20 S 64°47'.
(MIRKA 12:9)

(Whaling)

SHISTER, Yevgeniy L.; LIKHTER, B.I., red.; TSUTSUL'KOVSkiY, I.S.,
tekhn.red.

[To Antarctica after whales] V Antarktiku za kitami. Moskva.
Gos.izd-vo kul'turno-prosvetitel'noi lit-ry, 1948. 71 p.
(MIRA 13:4)

(Antarctic regions--Whaling)

SOV/117-59-4-20/36

25(6)

AUTHOR: Shister, Ye.L., Engineer

TITLE: Advanced Experience in the Organization of a Work Place.

PERIODICAL: Mashinostroitel', 1959, Nr 4, pp 35-36 (USSR)

ABSTRACT: The article gives an illustrated description of the work place of A.A. Kozlov, a highly-skilled toolmaker at the Moskovskiy zavod derevoobrabatyvayushchikh stankov (Moscow Plant of Woodworking Machines) who organized his work place and devised his own work-bench. It has shelves with a layout block on top, a holder for 27 tools, a special shelf for drawings. He has placed a floodlight lamp so that it lights the work place evenly, and sits on a special telescoping seat when doing template work. The plant administration set up an instruction card for toolmaker locksmiths using the Koylov's workplace as a

Card 1/2

SOV/117-59-4-20/36

Advanced Experience in the Organization of a Work Place.

model, on the suggestion of Nauchno-issledovatel'skiy
institut truda (Scientific Research Institute of Labor)
at a plant conference on the matter. Measures for
the practical organization of the plant's work
places are now being planned. There are 3 photographs.

Card 2/2

SHISTER, Yevgeniya L'vovna

[Intra-plant cost accounting and savings from volunteer labor]
Vnutrizavodskoi khozraschet i ekonomika obshchestvennogo truda. Moskva, Ekonomizdat, 1962. 129 p. (MIRA 16:1)
(Industrial management) (Accounting)

SHISTER, Yevgeniya L'vovna

[Intrafactory business accounting and the economy of communal labor] Vnutrizavodskoi khozraschet i ekonomika obshchestvennogo truda. Moskva, Izd-vo ekon.lit-ry, 1962.
129 p.

(MIRA 16:9)

(Industrial management)

SHISTERMAN, K. A.

Mbr., Chem. Lab., Kuznetsk Metal Combine im. I. V. Stalin, -c1948-49-. "Special Analytical
Determination of the Alkalinity of Open-Hearth Slag," Zavod. Lab., 14, No. 4, 1948;
"Photocolorimetric Analysis of Stainless Steel," ibid., No. 7, 1949.

TSIGLER, V.D.; VINOKUR, S.B.; MITROKHINA, N.S.; Prinimali uchastiye:
CHURSINA, L.S.; KRUSHENOK, L.B.; GOLOVANEVA, V.K.; SHISTKA, R.K.

Service of forsterite lightweight bricks in the lining of
furnace cars. Ogneupory 28 no.11:504-508 '63. (MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov
(for TSigler). 2. Panteleymonovskiy ogneupornyy zavod im.
K. Marksya (for Vinokur, Mitrokhina).

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

REF ID: A6511
SAC, LOS ANGELES, CALIFORNIA, APRIL 1967.
SUBJECT: AUTOMOBILE INDUSTRY - SAFETY MEASURES
(NPR 14-10)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

USSR/Metals
Steels

Colorimetric Analysis

Jul 49

"Photocolorimetric Analysis of Stainless Steel,"
K. A. Shusterman, O. A. Yakovleva, Kuznetsk Metal
Combine, 3½ pp

"Zavod Lab" No 7

Points out advantages of this method over standard
method. Illustrates application of method in
analyzing silicon, nickel, titanium, and molyb-
denum content stainless steel. Describes nec-
essary steps in preparing sample for colorimetric
measurement, and compares results with weight

62/49T91

USSR/Metals (Contd)

Jul 49

method in tables. Concludes that photocolori-
metric method is sufficiently accurate and rapid
to permit running control of smelting process.

62/49T91

SHISTEROVA, Z.N.

✓ 2891. Decomposition of samples by fusion as applied to the polarographic determination of copper, zinc, lead and cadmium. A. I. Lyakh, D. V. Lisitsina and Z. N. Shisterova (All-Union Sci. Res. Mining Metals Inst. of Non-Ferrous Metals). Zatod. I.zob., 1937, 23 (1), 20-23. — Samples of ores, etc., are decomposed by a mixture of NH_4Cl and NH_4NO_3 , (1:1) in a conical flask on a sand bath at 240° to 250° . Completion of the decomposition, which takes 5 to 7 min., is indicated by cessation of gas liberation from the melt. The cooled melt is dissolved in a suitable solvent for the polarographic determinations. G. S. Smith

4E4f
4E2c

PM fra
MT

SHITIKOV, L.I.

Classification of the processes of miscible phase recovery.
Trudy GrozNII no.10:111-129 '61. (MIR 15:2)
(Oil fields--Production methods)

SHITIKOV, L.I.

Interpretation of experimental data in the displacement
of oil by h.p. gas. Neft. i gaz. prom. 3:42-46 Jl-S '65.
(MIRA 18:11)

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549620002-2

NEW YORK, N.Y.

**"Notes on Planckium after ten years," author, Mar., 17, No. 7. 1916
REPRINTED, 22 Oct. 1951.**

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549620002-2"

USER/Astronomy - Celestial mapping

Card 1/1 Pub. 86 - 7/35

Authors : Bazykin, V. V., and Shistovskiy, K. N.

Title : Technical equipment of the Moscow planetarium

Periodical : Priroda 44/2, 54 - 61, Feb 1955

Abstract : A description is given of the technical equipment of the Moscow planetarium, which shows the daily and yearly movements of the celestial bodies on a curved ceiling. The apparatus was made by the Karl Zeiss firm. It is in a sense a calculating machine since it precalculates the position of any planet. Auxiliary devices take care of an enormous number of phenomena such as eclipses, phases of the moon, northern lights, etc. Illustrations; drawings.

Institution :

Submitted :

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHISTOVSKLY, K.N.

Using calculating machines for selecting commensurations and a
designing a planetarium. Biul.VAGO no.18:67-69 '56.
(MLRA 10:1)

(Planetaria)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHISTOVSKIY, K., kand. fiz.-mat. nauk

The sky and the calendar. IUn. nat. no.12:32-33 D '59 (MIRA 13:3)
(Calendar)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

Mikhaylov, A. A., ed.
 Shtantii v kosmose: shorotki stany (Space Stations); Collection of
 printed articles; Izdvo Ak SSSR, 1959, 448 P.
 (Series: Akademika nauk SSSR. Nauchno-populyarnye
 Seriya)

Resp. Ed.: A. A. Mikhaylov; Compiler: V. V. Pedorov; Ed. of
 Publishing House: Ye. M. Klyaus; Tech. Ed.: I. D. Novichkova.

PURPOSE: This book is intended both for the space specialist and
 the average reader interested in space problems.

COVERAGE: The book contains 73 short articles by various Soviet
 authors on problems connected with space travel and the launching
 of artificial earth satellites and space rockets. Some possi-
 bilities of future developments are also discussed. The ar-
 ticles were published in the period of 1957-1960. No par-
 ticulars are mentioned. There are no references.

III. ARTIFICIAL PLANET. FIRST ROCKET ON THE MOON

TASS Information. On the Launching of a Space Rocket
 to the Moon [January 13, 1959]. 28n

Jordans, A. M., Candidate of Physical and Mathematical
 Sciences. Is it Possible to Observe an Artificial Planet? [April 1959].

Barkashov, M. P., Active Member of the Academy or
 Sciences USSR. Artificial Earth Satellites and the
 Problem of Outer Space Flights [May 1959]. 254

Efimkin, B. N., Doctor of Physical and Mathematical
 Sciences. Launching of Space Rockets and Astronomical
 Problems [March 1959]. 259

TASS Information. Launching of a Space Rocket to the
 Moon by the Soviet Union [September 13, 1959]. 264

This Is the Way Lunik Was Flying! Izvestiya,
 September 15, 1959. 267

Milovich, A. G., Doctor of Physical and Mathematical
 Sciences. From the Earth to the Moon [September 15, 1959]. 270

Shtakovskiy, I. S., Doctor of Physical and Mathematical
 Sciences. Here Is the Artificial Comet [September 15,
 1959]. 272

Shatovskiy, F. M., Candidate of Physical and Mathe-
 matical Sciences. On an Outer Space Course [September 15, 1959]. 275

I. Trushin, A. A., Corresponding Member of the Academy
 of Sciences USSR. In the Future - Manned Flight
 [September 17, 1959]. 277

Yevolodov, P. I., Candidate of Medical Sciences. From
 the Moon to the Earth [September 20, 1959]. 280

TASS Information. First Results of Launching the Space
 Rocket to the Moon [September 21, 1959]. First Flight
 to the Moon (Pravda, September 21, 1959). 284

291

BAZYKIN, V.V.; BRONSHTEIN, V.A.; VORONTSOV-VEL'YAMINOV, B.A.; DAGAYEV, M.M.;
DMITRIYEV, L.S.; IZOTOV, A.A.; KULIKOV, K.A.; KUNITSKIY, R.V.;
MARTYNOV, D.Ya.; MINCHENKOV, Ye.Ya.; MOGILKO, A.D.; PESHL', Yu.G.;
POPOV, P.I.; REZNIKOV, L.I.; SVETLOV, R.I.; SEMAKIN, N.N.;
SHISTOVSKIY, K.N.

Mikhail Evgen'evich Nabokov; obituary. Fiz. v shkole 20 no.3:110-
111 My-Je '60. (MIRA 13:11)
(Nabokov, Mikhail Evgen'evich, 1887-1960)

PEREL', Yu.G.; POPOV, P.I.; MARTYNOV, D.Ya.; KUNITSKIY, R.V.;
VORONTSOV-VEL'YAMINOV, B.A.; BAZYKIN, V.V.; KULIKOV, K.A.;
SHISTOVSKIY, K.N.; TSVETOV, R.I.; BRONSHTEIN, V.A.; DAGAYEV, M.M.;
MOGILKO, A.D.; SEMAKIN, N.K.; IIMITRIYEV, L.S.; IZOTOV, A.A.

Mihail Evgen'evich Nabokov; obituray. Buil.VAGO no.28:60-62
'60. (MIRA 14:6)
(Nabokov, Mikhail Evgen'evich, 1887-1960)

BABAYANTS, R.A., professor; BATMANOVA, O.Ya., kand.med.nauk; VOLKOVA, N.V.,
kand.med.nauk; KIYANOV, N.V., kand.med.nauk; LYKOVA, A.S., kand.
med.nauk; MASOL'NIKOVA, T.K., kand.med.nauk; RUDBYKO, V.A., kand.
med.nauk; TOMILINA, K.A., kand.med.nauk; SHISTOVSKIY, S.P., kand.
med.nauk; KIRPICHEV, M.P., sanitarnyy vrach; MAKHINENKO, A.I.,
sanitarnyy vrach; OSHCHEPKOV, A.A., sanitarnyy vrach; PETROV, A.M.,
sanitarnyy vrach; ROSHAL', M.A., sanitarnyy vrach; SHEPELIN, O.P.,
sanitarnyy vrach

Sewage irrigation of fields and sanitation of natural waters. Gig.
i san. 22 no.9:64-67 > '57. (MIRA 10:12)

1. Zaveduyushchiy kafedroy Obshchey Gigiency Leningradskogo
sanitarno-gigiyenicheskogo meditsinskogo instituta, chlen-
korrespondent AMN SSSR (for Babayants)

(WATER SUPPLY WATER POLLUTION

sanitary protection of water reservoirs in use of sewage
water for field irrigation)

(IRRIGATION

same)

BRASLAVSKIY, A.N.; SHISTOVSKIY, S.P.

Capillary attraction of leather substitutes as one of the indexes
for their hygienic evaluation. Trudy LSGMI no. 5:292-304 '60.
(MIRA 14:11)

(LEATHER SUBSTITUTES)

BRASLAVSKIY, A.N., dotsent; SHISTOVSKIY, S.P., dotsent

Conicity of natural leather capillaries and its effect on some hygienic properties of footwear. Izv.vys.ucheb.zav.; tekhn.leg.prom. no.1:91-96 '63. (MIRA 16:3)

1. Gosudarstvennyy institut fizicheskoy kultury imeni P.F.Lesgafta (for Braslavskiy). 21. Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut (for Shistovskiy). Rekomendovana kafedroy obshchey gigiyeny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. (Leather—Testing)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

BRASLAVSKIY, A.N., dotsent; SHISTOVSKIY, S.P., dotsent; ZNAMENSKAYA, Z.I.,
kand. biolog. nauk

Capillary-porous structure of leather, woven and nonwoven fabrics.
Kozh.-obuv. prom. 7 no.1:23-27 Ja '65. (MIRA 18:3)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

GEFTER, Yu. M.; MILYUSHKEVICH, G.Y.; POSTNIKOV, B.N.; SHIT, A.Ya.

Significance of extensive protein diet in the treatment of
severe burns. Khirurgiia, Moskva no. 2:25-30 Feb 1953. (CLML 24:2)

1. Of Leningrad Scientific-Research Institute of First Aid.

Country	: USSR
Category	: Microbiology-Microbes Pathogenic for Man and Animal
Abs. Jour.	: <u>Kharkov</u> - <u>Ukrainia</u> , <u>1957</u> , <u>24</u>
Author	: Fyotimskaya, E.Z., Shit, O.R.
Institut.	: Kharkov Scientific Research Institute of Vaccines*
Title	: Cases of Water Fever in Left-Bank Ukraine Caused by Leptospira of the LV-A Type
Orig Pub.	: Tr. Kharkovsk. N.-I. In-ta Vaktsin i Syvorotok, 1957, Vol.24, 229-233
Abstract	: no abstract

* and Sera

Card: 1/1

GUREVICH, E.M., inzh.; SHIT, Ye.E., inzh.

Depth gauges for dragline excavators. Biul.tekh.inform. 5
no.2:13-15 F '59. (MIREA 12:4)
(Excavating machinery--Attachments)

KUROCHKIN, G.A.; TRAVKIN, V.S.; VLADISLAVLEV, Yu.Ye.; ANTONOV, N.V.;
GUREVICH, E.M.; SHIT, Ye.E.; PETROPAVLOVSKIY, B.P.; ACHKASOV,
N.I.; BORMOTIN, I.M.

Inventions. Gor.zhur. no.2:74-75 P '63. (MIRA 16:2)
(Mining machinery—Technological innovations)
(Earthmoving machinery—Technological innovations)
(Railroads—Rails)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHITAEV, VALERIY VITSL'YEVICH.

N/5
652.6
.55

Szhimeteli-rasshiritelei i ikh primeneniye v tekhnike dal'ney svyazi.
(Condenser-amplifiers and their use in long-distance communications engineering.
Moskva, Svyaz'izdat, 1955.
58 F. Diagrs., Graphs, Tables.
At head of title: Russia. Ministerstvo Svyazi. Tekhnicheskiye Upravleniya.
Lektsii po Tekhnike Svyazi.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

SITANSKIJ, N.S.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1016
AUTHOR SITANSKIJ, N.S.
TITLE The calorimetric determination of the average energies of the
 β -spectra of μ^{32} , S^{35} , Cu^{64} , W^{185} , and Au^{198} .
PERIODICAL Zurn.eksp.i teor.fis, 31, fasc.3, 393 - 396 (1956)
Issued: 12 / 1956

The average energies mentioned in the title were measured with double statistic calorimeters. On this occasion a known weight quantity of any chemical composition of the radioactive element to be investigated was enclosed in a thin-walled glass box or in a brass container, and the thermal effect of this composition was then measured in a calorimeter. The necessary corrections are discussed. The absolute β -measurements of the sources from which the specific activity ρ can be determined were carried out by means of a special device according to the method of the determined space angle.

The results of these caloric measurements, namely the weight quantity p of the radioactive preparation examined, the specific radioactivity ρ , and the thermal effect Q , are shown in a table. In the course of computations the average values of ρ and Q were taken and are also mentioned in the table. For Au^{198} caloric measurements were carried out not only in a thin-walled β -calorimeter, but also in a so-called γ -calorimeter. The thick interior walls of this calorimeter warrant total absorption of the γ -radiation with less than 700 keV. These measurements make it possible not only to determine the average energy of the β -spectrum of Au^{198} but also the total "thermal" decay energy. Also the values of this energy are shown in a table.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHITAREV, G.

Problems of intraparty democracy in the proposed statutes of the
CPSU. Komm. Vooruzh. Sil 1 no.18:30-39 S '61. (MIRA 14:9)
(Communist Party of the Soviet Union)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

SHITAREV, G.

Economic and production are the main things in party leadership.
Komm. Vooruzh. Sil 3 no.2:16-23 Ja '63. (MIRA 16:2)
(Communist Party of the Soviet Union)
(Russia--Economic policy).

PETROV, S.M., red.; PROKHOROV, V.I., red.; RUMYANTSEV, A.F., red.; SHITAREV, G.I., red.; SHITOV, N.F., red.; ZAKLADNAYA, V.M., red.; NAUMOV, K.M., tekhn. red.

[Toward the victory of communist labor; work practice of the party, Communist Youth League and trade-union organizations with communist labor brigades] K pobede kommunisticheskogo truda; ob opyte raboty partiynykh komsomol'skikh i profsoiuznykh organizatsii s brigadami kommunisticheskogo truda. Moskva, Izd-vo VPSh i AON pri TSK KPSS, 1961. 271 p. (MIRA 14:8)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola.

(Socialist competition)

TAVROVSKIY, V.A.; SHITAREV, I.S.

Materials on the feeding habits of sables in northwestern Yakutia [with summary in English]. Zool. zhur. 36 no.4:608-616 Ap '57.

(MLRA 10:6)

1. Yakutskiy filial Akademii nauk SSSR.
(Olenek District--Sables) (Animals, Food habits of)

YUAKTOV, B.P.; SHITANOV, V.G.

Determining the minimum acceptable width of work areas in conditions of the Nedvezhiy Ruchey open-pit mine. Izv. vys. uchet. zav.; tsvet. met. 6 no.3:12-26 '63. (III 4 :6:9)

Moskovskiy institut stali i splavov, kafedra razrabotki mestorozhdeniy rud redkikh i radioaktivnykh metalлов.
(Strip mining)

AUTHORS: Nazarenko, V. A., Shitareva, G. G. SU/52-24-8-6/43

TITLE: The Analysis of Pure Metals. The Determination of Trace Amounts of Cobalt in Bismuth (Analiz chistikh metallov. Opredeleniye primesii kobal'ta v vismute)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr. 3,
pp. 932-934 (USSR)

ABSTRACT: The determination of cobalt with nitroso-R salts cannot be carried out directly in the presence of bismuth. Extraction of the complex compound formed by cobalt with α -nitroso- β -naphthol into an organic solvent seemed to be a suitable means of separating these two metals. Experiments showed, however, that by masking the bismuth with citrate microgram quantities of cobalt could be determined starting from gram quantities of sample. A similar method has already been described for analysing biological materials. In this biological method the cobalt is determined by first extracting with nitroso-naphtholate and then complexing the cobalt with nitroso-R salt. In colorimetric and spectrophotometric determinations nitroso-R salts have been found to be as sensitive as α -nitroso- β -naphthol. The determinations with nitroso-R salts

Card 2

SOV/32-24-8-6/43

The Analysis of Pure Metals.

Determination of Trace Amounts of Cobalt in Bismuth

are usually carried out photometrically at 510-525 m μ , or visually. It was observed that at low concentrations of cobalt an excess of reagent adds to the color given by the complex, thus decreasing the sensitivity of the determination. To avoid this effect an attempt was made to destroy the excess reagent by adding bromate in weakly acidic solution. In doing so the stability of the color was markedly reduced, but this is not important as long as no prolonged determinations are carried out. The analytical procedure is given. The results obtained show that as little as 1.10^{-5} % cobalt in bismuth can be determined using this method.

There are 1 table and 4 references, 2 of which are Soviet.

Author : V. V. Kostyuk
Institute : Institute of General Chemistry
of the Ukrainian Academy of Sciences Ukrainian SSR

2

AUTHOR: Bilibinovich, G. Yu.
 TITLE: Section of Analytical Chemistry of the V.I. Mendeleev
 Conference on General and Applied Chemistry
 PERIODICAL: Zhurnal analiticheskoy khimii, 1959, Vol. 14, No. 4, pp. 511-512
 (USA)

ABSTRACT: Approximately 200 persons participated in the work of the Department of Analytical Chemistry, among them representatives of various scientific research institutes, higher schools and industrial enterprises in Russia, scientists from China, Bulgaria, the USSR, Poland, Hungary, and Italy. Approximately 70 reports were heard. In his opening speech I.P. Il'inskaya reported on the achieved results and on modern problems of analytical chemistry. A.V. Tsvetkov reported on the application of chemical analysis in the determination of organic compounds. For the solution of a series of problems of analytical chemistry, V.P. Kurnosov reported on modern aims in the use of organic reagents.

A.I. Babko showed at the conference halide and thiohalide complexes; the correlation between the stability of complexes and the position of the corresponding central atoms in the periodic system. L.M. Zhdanova and F.M. Dzhilis lectured on the stability of oximates of Cu, Co, and Ni as depending on the structure of the oxime molecule. N.Z. Tordzina lectured on the structure of complexes of reaction of some compounds in the formation of complexes. The problem of the application of heteropolyoxides in analytical chemistry was dealt with in the lectures of Z.N. Shakhovskaya and A.I. Kogrin and N.A. Polikarpova. A large number of lectures dealt with the use of new organic reagents in analysis. A.I. Rusanov and M.I. Ivan'yushin reported on the application of dialy, and dry, and dilution phosphoric acid for the separation of elements. A.I. Polikarpova used acyl carboxylic acid and acyl phosphoric acid. R.L. Lazutkin and his co-workers treated some properties of new complexants. The lectures of V.A. Mironchik, G.S. Shtarkman, and L.I. Antonova dealt with the photometric determination of a series of elements using fluorine derivatives. A.S. Cherkopov lectured on the use of boric acid in analytical chemistry. B.E. Bobkina and I.M. Moshulius, accurate on the determination tantalum using differential photometry. Yu. I. Morozhevskiy and I.A. Gol'dberg reported on new highly sensitive analysis methods using an ultraviolet microscope. Several lectures dealt with methodical and theoretical problems of spectrum analysis (I.P. Zabotin and G.A. Shevchenko, E. Ye. Vaynshteyn and co-workers). N.G. Pulekterov and M. N. Mikonova treated the perfection of flame photometry. Several lectures dealt with the determination of elements by polarography (S.I. Sinyavskiy).

Z.B. Bokhodenkova and I.A. Tarasov (Ye. P. Gorbatova) gave results in using fixed electrodes. Some reports were reported by V.P. Pancheva and Yu. S. Ivalkov and co-workers. The lecture of N.I. Daldakov and D.Y. Teplyakov treated the use of radioactive titration with two tracer isotopes in the chemistry of uranium and thorium. M.M. Seligin showed possibilities of predicting the conditions of chromatographic separation of ions based on their position in the periodic system. Z.I. Polyakova reported on the use of ion exchange in the investigation of the state of substances in solutions. A.G. Yarishuk and A.I. Petrushin lectured on the chromatographic separation of a series of elements. M.C. Polynskiy reported on adapting the properties of ion exchanger resins. Z.M. Chevakin and associates reported on the chromatographic proof of sulfonamide preparations in liquids of the organism. G.L. Starobinets and associates treated the application of high polymers in chromatographic analysis. The lecture of A.A. Bubkina and E.M. Tukalina, O. Ye. Zilberman and I. I. Likhachev, S. I. Likhachev, and co-workers, dealt with the use of gas chromatography. Several lectures treated the use of radioactive isotopes for the chromatographic investigation of complex formation (D.I. Bubchik and I.A. Petrushin), the investigation of the co-precipitation methods of ions of rare metals with sulfides (D.A. Sud'ya) and for determining rare elements by means of isotope dilution (I.P. Aliperovitch).

Illustrated in the final elementary organic microanalysis was the lecture of N.I. Likhachev, N. Z. Zilberman, and V.A. Klimov. His co-workers have to be mentioned, who treated the information of rapid methods for the simultaneous determination of several elements in one weighed portion of boron, fluorine and silicon-calcium compounds.

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S/073/60/026/003/007/011/XK
B023/B060

AUTHORS:

Shitareva, G. G. and Nazarenko, V. A.

TITLE:

Derivatives of Tioxy Fluorone as Reagents on Tellurium

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 3,
pp. 368-372

TEXT: The authors wanted to find out the behavior of tetravalent tellurium toward compounds containing the orthooxy quinone grouping and being reagents for ions of the tetravalent metals germanium, lead, titanium, zirconium, hafnium, and thorium. The authors were particularly interested in the derivatives of trihydroxy-6-fluorone. Experiments revealed a total of 15 derivatives of the derivative tellurium reacts with the majority of the trihydroxy-6-fluorone. The trihydroxy-6-fluorone specified in Table 1 were the most sensitive in reacting. The substituents on C₉ were 1) propyl, 2) β-hydroxy-α-naphthyl, 3) 4-hydroxy-3-methoxy phenyl, 4) 2-methoxy-3,4-methylene dihydroxy-6-ethyl-β-methyl amino phenyl, 5) trichloro methyl, 6) 4-nitrophenyl, 7) 5-nitro-2-hydroxy phenyl, 8) 3-nitro-2-hydroxy phenyl. Reagents 1, 2, 5, and 6

Card 1/3

Derivatives of Trioxy Fluorone as Reagents on S/073/60/026/003/007/011/XX
Tellurium B023/B060

have a sensitivity of 0.2 γ /ml, and the reagents 3, 4, and 7, a sensitivity of 0.4 γ /ml. The introduction of ethyl alcohol into the solution prevents the reagents from co-precipitating, but it also prevents their reacting with tellurium. No more than 10% alcohol must be contained in the solution. With 20% alcohol, tellurium does not react at all. A study of the specificity showed that under these conditions trioxy fluorones react with Al, Fe, Sc, Au (III), In, Ge, Sn (IV), Sb (III), Ti, Zr, W, Mo, U, Ta, Nb, V (V). Te (VI), As(V), and Sb (V) do not react. Se reacts neither in tetra- nor in hexavalent form. Summing up: The derivatives of 2,3,7-trioxy fluorone substituted on C₉ in weakly acid medium (pH 4-6) with tetravalent tellurium give rise to colored complexes, whose composition corresponds to the ratio Te:R = 1:2. It was proved that 9-propyl-2,3,7-trihydroxy-6-fluorone (propyl fluorone) and 9- β -hydroxy- α -naphthyl-2,3,7-trihydroxy-6-fluorone (β -hydroxy- α -naphthyl fluorone) are suited for the photometric determination of tellurium. The solutions of complexes at optimum pH 4-5.6 obey Beer's law at a tellurium concentration of 0.4 - 2.4 γ /ml. Table 2 shows the determination of tellurium in the presence of other elements. There are 4 figures, 2 tables, and 3 references: 1 Soviet, 1 US, and 1 Japanese.

Card 2/3

Derivatives of Trioxy Fluorone as Reagents on Tellurium S/073/60/026/003/007/011/XX
B023/B060

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR, Laboratoriya v Odesse (Institute of General and Inorganic Chemistry of the AS UkrSSR, Laboratory in Odessa)

SUBMITTED: April 6, 1959

Таблица 2

Определение теллура в присутствии других элементов

1) Взято Te,	2) Добавлено,	3) Найдено
γ	мг	γ
10	Se-1	11
10	Se-10	10
20	As(V)-0,2	21
20	Au-0,05	20
10	Bi-0,1	10,5
20	Bi-0,5	20
40	Fe(III)-0,05	40
	Al-0,05	

Legend to Table 2: 1: weighed portion Te, γ; 2: admixture, mg; 3: value found. This lecture was delivered at the Section of Analytical Chemistry of the VIII Mendeleyev Congress on General and Applied Chemistry.

Card 3/3

SHITAREVA, G.G.; NAZARENKO, V.A.

Trihydroxyfluorone derivatives as reagents for tellurium.
Zhur.prikl.khim. 33 no.7:368-372 J1 '60.
(MIRA 13:7)

1. Institut obshchey i neorganicheskoy khimii AN USSR,
laboratori v Odessa.
(Tellurium--Analysis) (Isoxanthenone)

27833
8/032/61/027/010/006/022
B110/B101

55300

AUTHOR: Shitareva, G. G.

TITLE: Determination of tellurium impurities in pure bismuth

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 10, 1961, 1196

TEXT: The colorimetric Te determination in Bi metal by forming a yellow bromide complex has a sensitivity of 0.5 - 1.80% /ml Te. Maximum admissible Bi content in the colorimetered volume is 200%, maximum Se content = 1-2%. Addition of ascorbic acid permits the determination also in the presence of small amounts of Fe and Cu. 1-2.5 g of finely pulverized Bi was dissolved in 5 ml HNO₃, evaporated to syrupy consistency, mixed with 2 ml H₂O, 2.5 ml H₂SO₄ (1:1), and evaporated until dry. The residue was dissolved in 20 ml concentrated HCl, mixed with 60 ml H₂O, and stirred. 2 ml of SnCl₂ solution was added, heated to boiling, and left standing for 1 day. After addition of 0.5 ml SnCl₂ solution, the residue was filtered off, washed out eight times with

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Card 1/4

27033

S/032/61/027/010/006/022

B110/B101

Determination of tellurium ...

3 N HCl, four times with H_2O , and dissolved in 10 ml chlorine water. The solution was evaporated to dryness, mixed with 4 ml HBr (1.48-1.49), and evaporated to 3.0 - 3.5 ml. For the colorimetric determination, it was filled up to 3.5 ml with HBr, mixed with 0.5 ml 1% ascorbic acid, stirred, and mixed with 1 ml distilled water. The standard series is prepared with 0-30 μ g Te at 5 μ intervals, and treated like the analytical solution. A standard solution containing 500 μ g Te/ml was obtained from 50 mg elementary Te under heat heating in 70 - 80 ml distilled HBr with 3 - 4 drops of bromine. The working solution containing 20 μ g/ml was obtained from the initial solution through dilution with HBr. Samples of pure Bi and Bi(NC)₃/₂ were investigated, and the course of analysis was checked by means of Te-, Fe-, Sb-, and Sn radioisotopes. There is 1 table.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk USSR (Institute of General and Inorganic Chemistry of the Academy of Sciences UkrSSR)

○ X

Card 2/4

Determination of tellurium ...

27833
S/032/61/027/010/006/022
B110/B101

Table. Tellurium determination in bismuth.

Legend: (1) Analysis material. (2) Bismuth nitrate. (3) Bismuth metal no. 1. (4) Bismuth metal no. 2. (5) Weighed portion, g. (6) Tellurium added, %. (7) Tellurium found inclusive of admixture, %.

Card 3/4

S/052/62/026/006/002/025
B110/3101

AUTHORS: Korarenko, V. A., Shustova, M. B., Shitareva, G. C., Yagnyatinskaya, G. Ya., and Ravitskaya, R. V.

TITLE: Determination of impurities in titanium

PUBLICATION: Zavodskaya laboratoriya, v. 28, no. 6, 1962, 645 - 648

TEXT: The determination of the contents of Ta, Al, P, Si, Mg, Cr, Mn, Fe, and Ni in Ti with an accuracy of 0.0001% is described. (1) Tantalum is photoelectrically determined with dimethyl fluorone (50 mg in 100 ml 96% $\text{C}_2\text{H}_5\text{OH}$ and 0.5 ml 6 N HCl) after extraction as a fluorine complex with an acetone-isobutanol mixture. (2) Manganese is determined colorimetrically (HNC_3 , K_3PO_4 , and potassium periodate) as manganic acid after extraction in the form of diethyl dithiocarbamate. (3) Iron is determined colorimetrically as thiocyanate after extraction of the oxinate (5 ml 1% oxine solution in 1 N CH_3COCH_3) using chloroform in the presence of H_2O_2 at $\text{pH} > 8$. (4) Nickel is colorimetrically determined with dimethyl glyoxime after the

Card 1/2

Determination of impurities ...

S/032/62/028/006/002/025
B110/B101

extraction of the dimethyl glyoximate with CHCl_3 . After the extraction of titanium cupferronate with CHCl_3 , the contents of Al, Cr, Mg, and P in the aqueous phase are determined. (1) Aluminum is fluorometrically determined with eriochrome black. (2) Chromium is determined colorimetrically with an acetone solution of diphenyl carbazide. (3) Magnesium is determined by using a solution of eriochrome black B in $10\% \text{ NH}_3$. (4) Phosphorus is determined as phosphorus molybdenum blue extracted with isoamyl alcohol. Impurities forming no volatile compounds (e. g., Si) are determined after the removal of Ti in the form of TiCl_4 . There is 1 table.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk UkrSSR (Institute of General and Inorganic Chemistry of the Academy of Sciences UkrSSR)

Cari 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHITENKOV, D.

Five-year plan steps. Sov.mor. 16 no.16:16 Ag '56. (MIRA 10:1)
(Automobile industry)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SUBJECT: U.S.A. Englewood

"Notes with Inserted Graph," Standard Information, 20, No. 17, 1931.

Report U-170, 1 Oct. 1951.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

SHITIKHIN, V.V.

New apparatus for measuring the deflection in exploratory bore-holes. Razved. i okh.nedr 24 no.10:25-33 0 '58.
(MIRA 12:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i
tekhniki razvedki.
(Prospecting--Equipment and supplies) (Measuring instruments)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHITIKHIN, V.V.; KURMASHEV, A.M.; BAYUNCHIKOVA, Z.V.; STOIYAROV, A.G.,
red.izd-va; BYKOVA, V.V., tekhn.red.

[Exploratory directional drilling] Burenie napravlenykh geo-
logorazvedochnykh skvazhin. Moskva, Gosgeoltekhnizdat, 1960.
(MIRA 15:5)
119 p. (Boring)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

GITTS IGRAT, E.E.; SHITIKHIN, V.V.

New device for oriented core extraction from slim holes.
Razved.i okh.nedr. 28 no.11:58-61 N '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhniki
razvedki.
(Core drilling—Equipment and supplies)

L 33232-65

ACCESSION NR: AP5004969

S/0286/65/000/002/0074/0075

AUTHOR: Shitikov, A. B.

TITLE: Reduction valve for gas refrigeration machines and deep freeze plants.
Class 46, No. 167708

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 2, 1965, 74-75

TOPIC TAGS: pump, refrigerating system

13

B

ABSTRACT: This Author Certificate describes a reduction valve for gas refrigeration machines and deep freeze units. The device contains a core, a cylinder with a piston and dome, and a gas distribution device. The dome and piston are made respectively with a projection and a deep cavity in the form of a truncated cone. The piston is equipped with four sealing rings, two of which are placed in the upper part and two in the lower. It is also equipped with a system of radial channels set between them and linked with the space above the piston, and with an annular groove on the external surface of the piston. In the extended position, the piston opens the exhaust and intake openings in the cylinder wall. The device is shown in Fig. 1 on the Enclosure. Orig. art. has: 1 figure.

Card 1/3

L 33232-65

ACCESSION NR: AP5004969

ASSOCIATION: Spetsial'noye konstruktorskoye byuro po kompressorostroyeniyu
(Special Construction Bureau for Compressor Building)

SUBMITTED: 18May63

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 2/3

25(5)

AUTHORS: Rabinovich, P.M., Khrisanfov, G.A.,(Moscow) Vager, L.A.
(Moscow) and Shitikov, A.M.,(Leningrad);Engineers.

SOV/28-59-2-14/26

TITLE: On Revising Standards of the "Layout System" (K peresmotru
standartov "Sistema chertezhnogo khozyaystva")

PERIODICAL: Standartizatsiya, 1959, Nr 2, pp 43-47 (USSR)

ABSTRACT: This article contains suggestions by four authors for lay-
out standards now being revised. Different modifications
to the preparation of working drawings, their registration
and their storage, are proposed. There are 2 tables.

ASSOCIATION: TsNIITMASH; VNII.

Card 1/1

ACCESSION NR: AP4006839

S/0120/63/000/006/0173/0174

AUTHOR: Lukin, E. A.; Shitikov, B. I.

TITLE: Transistorized broadband pulse generator

SOURCE: Pribory* i tekhnika eksperimenta, no. 6, 1963, 173-174

TOPIC TAGS: broadband pulse generator, transistorized pulse generator, pulse generator, low-impedance pulse generator, digital computer, testing, pulse oscillator

ABSTRACT: A pulse generator is described which consists of a master multivibrator, a starting-pulse shaper, an output-pulse shaper (one-shot multivibrator), an amplifier, an amplifier-phase-inverter, and an emitter-type output repeater. The master multivibrator can operate in any of the ten bands: 3, 2, 1 mc, 500, 250, 100, 50, 20, 1 kc, and 20 cps. The shaped-pulse duration is 0.1 microsec. The output-pulse shaper produces pulses of from 0.2 microsec to

Card 1/2

ACCESSION NR: AP4006839

10 millisec. The output impedance is 5 ohms; output pulse power, 18 w; the output-pulse amplitude can be varied gradually from 0 to \pm 18 v. The instrument is intended for aligning digital computers and other pulsed devices. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 11Jan63

DATE ACQ: 24Jan64

ENCL: 00

SUB CODE: SD

NO REF SOV: 001

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

SHITIKOV, B.P., inzh.

Assembly of the elements of a nitrate fertilizer plant.
Mekh. stroi. 19 no.10:18 0 '62. (MIRA 15:12)
(Fertilizer industry)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2"

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Saitikov, B. V. and Sichepetil'nikov, V. A. - "On the number of satellites in planetary re-lation years," Selenika o teryrii vakhin i mekhanizmov (Nauk. zhurn. SSSR, Issled. mashino-vedeniya), Vol. VI, Issue 31, 1949, p. 50-68

SO: U-3600, 10 July 59, (Letonic 'Zhurnal 'nykh Statey, No. 6, 1949).

21'91 CHITINOV, B. V. i SHCHEFIL'INOV, V. A.

Opredeniye chisla satellitov v planetarnykh mekhanizmakh.
Trudy Mosk. elektromekhan. in-ta inzhenerov zh.-i. transporta im.
Dzerzhinskogo, Vyp. 58, 1949, s. 111-26.

?: Ietoris' Zhurnal'nykh Statej, №. 29, Moskva, 1949

123-1-1886

Translation from: Referativnyy Zhurnal, Mashinostroyeniye,
1957, Nr 1, p. 272 (USSR)

AUTHORS: Grigor'yev, A.M., Shitikov, B.V.

TITLE: Operational Efficiency of Vertical High-speed Worm
Conveyer (K voprosu o proizvoditel'nosti vertikal'nogo
bystrokhodnogo shneka)

PERIODICAL: Tr. Kazansk. khim-tehnol. in-ta, 1955, Nr 19-20,
pp. 155-165

ABSTRACT: Bibliographic entry.

Card 1/1

SHITIKOV, G. T.

5X2+1

OSCILLATOR AND AMPLIFIER SYSTEMS WITH A SINGLE
TUNED CIRCUIT: THE EFFECT OF THE TUNED-
CIRCUIT CHARACTERISTIC ON THE STABILITY AND
AMPLIFICATION FACTOR RESPECTIVELY [FOR SHORT &

ULTRA-SHORT WAVES].—G. T. SHITIKOV. (Izvestiya

Elektrosvim. Sist. Tekhn. No. 12, 1949, pp. 24-31.)

consideration is given to facilitating the choice of L and C in the design of a high-frequency amplifier or a Hartley oscillator, using a single tuned circuit. The discussion is confined to operation on short and ultra-short waves. For the case of an h.f. amplifier coupled to a preceding valve stage through a single tuned circuit (Fig. 1), formula (7) determining the permissible amplification factor k is derived for the condition that for a given frequency and variation in valve inter-electrode capacity, k shall not decrease more than $\sqrt{2}$ times, if both valves are changed. It appears from this formula that k is dependent both of Q and of the choice of values of L and C . It is further shown that for a Hartley oscillator the stability is also independent of L and C but is directly related to Q . Methods are therefore indicated, and have been verified experimentally, for determining the optimum value of Q . A number of practical suggestions are added.

SHITIKOV, G. T.

"Influence of Climatic Conditions on the Stability of the Basic Elements of the
Oscillator Control of a Vacuum Tube Generator and Methods of Diminishing Nonstability,"
Trudy, NIISSV, No.4, page 3, 1947

SHITIKOV, G. T.

USSR/Electronics - components

FD-1062

Card Pub 90 - 10/12

Author : G. T. Shitikov

Title : Remarks of Kharinskiy's article "Problem of temperature parameters of inductance coils" (Letter to the editors)

Periodical : Radiotekhnika 9, 76-77, Jul/Aug 1954

Abstract : Author disputes [A. L.] Kharinskiy's theoretical position (Radiotekhnika 8, Nov/Dec 1953) on the calculation of the frequency dependence of the temperature coefficient of single-layer cylindrical inductance coils. He refers to his own conclusions as published in an article in 1946 and published in part in S. S. Arshinov's book "Temperaturnaya stabil'nost' chastoty lampovykh generatorov" (Temperature stability of the frequency of tube oscillators), 1953.

Institution : --

Submitted : --

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549620002-2

^{621.27.2}
 2108 INFLUENCE OF THE SPACE-CHARGE CAPACITANCE AND THE VALVE CHARACTERISTIC NONLINEARITY ON THE FREQUENCY OF AN OSCILLATOR. G.T. SHITIKOV.
 Radiotekhnika, Vol. 10, No. 12, 54-70 (1955). M. Rassstan.

The frequency instability of an oscillator, as a function of the valve supply voltages, is due to the following factor: dynamic capacitance of the valve, C_d , harmonics in the anode waveform and the internal resistance of the valve. The dynamic capacitance depends on the grid-cathode space charge and is approximately proportional to the slope of the valve; it is also a function of the anode and heater supply voltages. The effect of C_d on the frequency of generalized capacitively and inductively coupled oscillators is analysed in detail. It is shown that the resulting frequency deviation is directly proportional to C_d , inversely proportional to the slope of the tube, Q-value of the tuning coil and the coupling factor, and increases with increasing frequencies. Expressions for the frequency instability as a function of the harmonic content and the internal valve resistance for both the generalized oscillators are also evaluated. The results are shown graphically for a capacitively coupled oscillator. The three types of frequency deviation are compared over frequencies of 0.2 to 60 Mc/s and it is shown that the effect of C_d becomes predominant above 2 Mc/s. The theory is fully confirmed by the experimental results which are given in three tables together with the corresponding theoretical values.

R.S. Sidorowicz

(5) 4

SHITIKOV, G.T.

Stable self-oscillators with inductance coils operating on a frequency which approaches their natural frequency. Radiotekhnika 16 no.4:27-36 Ap '61. (MIRA 14:9)

1. Deystvit'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrsovyyazi im. A.S. Popova.
(Oscillators, Electric)

SHITIKOV, G.T.

Stable self-oscillators with tank circuit inductance coils operating
close to the self-resonant frequency. Radiotekhnika 16 no.5:76-80
(MIRA 14:6)
My '61.

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva
radiotekhniki i elekrosvyazi.
(Oscillators, Electric)